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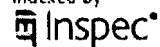
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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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View: 1-25 | 26-5

- ☐ 1. **Mitigating error propagation in CDMA multiuser DFE**  
 Zhi Tian;  
Signals, Systems and Computers, 2001. Conference Record of the Thirty-Fifth Conference on  
 Volume 1, 4-7 Nov. 2001 Page(s):424 - 428 vol.1  
 Digital Object Identifier 10.1109/ACSSC.2001.986963  
[AbstractPlus](#) | Full Text: [PDF\(379 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 2. **Decision feedback equalization for channels with error correcting capability**  
 Bednarz, P.S.; Cioffi, J.M.;  
Communications, 1997. ICC 97 Montreal, 'Towards the Knowledge Millennium International Conference on  
 Volume 3, 8-12 June 1997 Page(s):1607 - 1612 vol.3  
 Digital Object Identifier 10.1109/ICC.1997.595059  
[AbstractPlus](#) | Full Text: [PDF\(540 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 3. **BEACON: an adaptive set-membership filtering technique with sparse up**  
 Nagaraj, S.; Gollamudi, S.; Kapoor, S.; Yih-Fang Huang;  
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on]  
 Volume 47, Issue 11, Nov. 1999 Page(s):2928 - 2941  
 Digital Object Identifier 10.1109/78.796429  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(404 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **Analysis of the error surface of the adaptive stochastic filter**  
 Rasmussen, J.L.; Etter, D.M.;  
Signals, Systems and Computers, 1992. 1992 Conference Record of The Two Conference on  
 26-28 Oct. 1992 Page(s):866 - 870 vol.2  
 Digital Object Identifier 10.1109/ACSSC.1992.269149  
[AbstractPlus](#) | Full Text: [PDF\(236 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- 5. **Hyperspherical parametrization for unit-norm based adaptive IIR filtering**

- ☐ Sankaran, S.G.; Beex, A.A.L.;  
[Signal Processing Letters, IEEE](#)  
Volume 6, Issue 12, Dec. 1999 Page(s):318 - 320  
Digital Object Identifier 10.1109/97.803434  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(104 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 6. **An adaptive RAM-DFE for storage channels**  
Fisher, K.D.; Cioffi, J.M.; Abbott, W.L.; Bednarz, P.S.; Melas, C.M.;  
[Communications, IEEE Transactions on](#)  
Volume 39, Issue 11, Nov. 1991 Page(s):1559 - 1568  
Digital Object Identifier 10.1109/26.111433  
[AbstractPlus](#) | Full Text: [PDF\(928 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 7. **An algorithm for unit-norm equation error system identification based on multipliers**  
Lopez-Valcarce, R.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Sig IEEE Transactions on\]](#)  
Volume 51, Issue 12, Dec. 2003 Page(s):3080 - 3085  
Digital Object Identifier 10.1109/TSP.2003.819012  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(442 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 8. **Fast blind decision feedback equalizer for mobile links with short blocks**  
Schmidbauer, A.; Schmatutz, M.; Herzog, R.;  
[Vehicular Technology Conference, 1998. VTC 98. 48th IEEE](#)  
Volume 3, 18-21 May 1998 Page(s):2398 - 2402 vol.3  
Digital Object Identifier 10.1109/VETEC.1998.686188  
[AbstractPlus](#) | Full Text: [PDF\(372 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ 9. **On bias removal and unit norm constraints in equation error adaptive IIR**  
Douglas, S.C.; Rupp, M.;  
[Signals, Systems and Computers, 1996. 1996 Conference Record of the Thirti Conference on](#)  
3-6 Nov. 1996 Page(s):1093 - 1097 vol.2  
Digital Object Identifier 10.1109/ACSSC.1996.599112  
[AbstractPlus](#) | Full Text: [PDF\(448 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ 10. **Coefficient-constrained lattice structures for retrieving single-tone harm**  
Hu, Y.H.; Phan, B.C.;  
[Radar and Signal Processing, IEE Proceedings F](#)  
Volume 137, Issue 4, Aug. 1990 Page(s):243 - 252  
[AbstractPlus](#) | Full Text: [PDF\(472 KB\)](#) IET JNL
  
- ☐ 11. **High speed small-area digital filter design using constrained quantization**  
Sang-In Cho; Jeong-Hak Kim; Jae-Won Kim; Jin-Gyun Chung; Sang-Seob So;  
[Signals, Systems & Computers, 1998. Conference Record of the Thirty-Secon Conference on](#)  
Volume 2, 1-4 Nov. 1998 Page(s):1235 - 1239 vol.2  
Digital Object Identifier 10.1109/ACSSC.1998.751524  
[AbstractPlus](#) | Full Text: [PDF\(344 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ 12. **Design Considerations for a 144 kbit/s Digital Transmission Unit for the L Network**

## EAST Search History

| Ref # | Hits | Search Query  | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|------|---|----------------------------------|------------------|---------|------------------|
| L1    | 1    | differential near5 delay\$3 same (constrained or constrain or constraint or constrain\$3) near5 tap | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 09:52 |
| L2    | 1    | differential near5 delay\$3 same (constrained or constrain or constraint or constrain\$3) near5 tap | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2007/05/16 09:52 |
| L3    | 1    | differential near5 delay\$3 same (constrained or constrain or constraint or constrain\$3) near8 tap | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2007/05/16 09:52 |
| L5    | 1    | differential near7 delay\$3 same (constrained or constrain or constraint or constrain\$3) near8 tap | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2007/05/16 09:52 |
| L6    | 9    | differential near7 delay\$3 and (constrained or constrain or constraint or constrain\$3) near8 tap  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2007/05/16 09:54 |
| L7    | 1    | differential near7 delay\$3 near5 tap same (constrained or constrain or constraint or constrain\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2007/05/16 09:54 |
| L8    | 1820 | 375/232,233.ccls.   | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 09:55 |
| L9    | 6    | 8 and (differential same constrain\$3)  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 09:58 |
| L10   | 33   | constrain\$3 near5 tap near4 weight   | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 09:59 |
| L11   | 8    | 8 and 10  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:05 |
| L12   | 350  | ((channel adj2 impulse adj3 respon\$5) or "cir") near4 tap  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:05 |
| L13   | 257  | ((channel adj2 impulse adj3 respon\$5) or "cir") near2 tap  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:37 |
| L14   | 37   | 8 and 13  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:16 |
| L15   | 122  | approxima\$7 near4 differential near4 delay\$3  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:18 |
| L16   | 1    | 8 and 15  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:17 |
| L17   | 162  | approxima\$7 near6 differential near4 delay\$3  | US-PGPUB; USPAT                  | OR               | ON      | 2007/05/16 10:18 |

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|-----|-----|--|--------------------|----|----|------------------|
| L18 | 1   | 8 and 17   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 10:18 |
| L19 | 175 | approxima\$7 near6 differential<br>near6 delay\$3  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 10:18 |
| L20 | 1   | 8 and 19   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 10:18 |
| L22 | 0   | ((channel adj2 impulse adj3<br>respon\$5) or "cir") same differential<br>near4 tap near5 weight  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 13:53 |
| L23 | 473 | error near4 ((decision adj2 fe\$1d<br>adj2 back adj3 (filter\$5 or<br>equali\$7)) or "dfe")  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:31 |
| L24 | 46  | constrain\$3 near4 tap near4<br>weigh\$3   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:29 |
| L25 | 7   | 23 and 24  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:29 |
| L26 | 847 | error with ((decision adj2 fe\$1d adj2<br>back adj3 (filter\$5 or equali\$7)) or<br>"dfe")   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:31 |
| L27 | 7   | 24 and 26  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:31 |
| L28 | 11  | 8 and 24   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 11:45 |
| L30 | 1   | constrain\$3 near5 tap near4 weight<br>same ((channel adj3 impulse adj2<br>respon\$4) or "cir") with constrain\$4<br>near6 (function or value or number<br>or delay or weight) | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 12:20 |
| L31 | 1   | constrain\$3 near5 weight same<br>((channel adj3 impulse adj2<br>respon\$4) or "cir") with constrain\$4<br>near6 (function or value or number<br>or delay or weight)           | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 12:20 |
| L32 | 6   | constrain\$3 near5 delay same<br>((channel adj3 impulse adj2<br>respon\$4) or "cir") with constrain\$4<br>near6 (function or value or number<br>or delay or weight)            | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 12:22 |
| L33 | 9   | constrain\$3 near5 tap same<br>((channel adj3 impulse adj2<br>respon\$4) or "cir") same<br>constrain\$4 near6 (function or value<br>or number or delay or weight)              | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 12:22 |
| L34 | 9   | 33 not 32  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 13:37 |
| L35 | 8   | constrain\$3 near4 error with tap<br>with weight   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 13:45 |

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|-----|--------|--|--|----|----|------------------|
| L38 | 3      | ((channel adj2 impulse adj3 respon\$5) or "cir") with weight same ( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5))) | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 13:55 |
| L39 | 3      | ((channel adj2 impulse adj3 respon\$5) or "cir") with weight same ( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5))) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 13:57 |
| L40 | 29     | ((channel adj2 impulse adj3 respon\$5) or "cir") near4 ( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))            | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 16:07 |
| L41 | 206    | ((mean adj2 square adj2 error)or "mmse") near4 ((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))                     | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 16:08 |
| L42 | 181    | ((mean adj2 square adj2 error)or "mmse") near2 ((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))                     | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 16:12 |
| L43 | 8      | linear\$3 near4 constrain\$3 near4 tap   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 16:09 |
| L44 | 1      | ("1" or one) near4 norm near3 tap near3 weight with constrain\$3   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO | OR | ON | 2007/05/16 16:13 |
| L46 | 188502 | "375"/ "259,260,267,285,316,340,343,350,354".ccls.   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 17:04 |
| L47 | 17     | 40 and 46  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 16:57 |
| L48 | 1486   | 333/17.1,18.ccls.  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 17:08 |
| L50 | 6901   | different\$7 same ((non adj2 different\$7) or (un adj2 different\$7))  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 17:02 |
| L51 | 81     | different\$7 same ((non adj2 different\$7) or (un adj2 different\$7)) with delay   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/05/16 17:03 |

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| L52 | 0       | 48 and 51  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:03 |
| L53 | 11008   | 375/259,260,267,285,316,340,343,<br>350,354.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:04 |
| L54 | 75      | FIMOFF-MARK.in.  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:08 |
| L55 | 7       | HILLERY-WILLIAM-J.in.  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:08 |
| L56 | 11      | ZOLTOWSKI-MICHAEL-D.in.  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:08 |
| S1  | 108     | (fix\$6 or calculat\$3 or estimat\$3 or<br>determin\$7 or reduc\$4) with error<br>near5 propagat\$3 same ((fe\$1d<br>adj2 back near2 (equali\$7 or<br>filter\$5)) or "dfe" or (decision adj2<br>fe\$1d adj2 back near2 (equali\$7 or<br>filter\$5))) | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:28 |
| S2  | 1       | different\$7 near2 tap same ((non<br>adj2 different\$7) or (un adj2<br>different\$7)) near5 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:15 |
| S3  | 3       | different\$7 near6 tap same ((non<br>adj2 different\$7) or (un adj2<br>different\$7)) near5 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:16 |
| S4  | 4       | different\$7 near8 tap same ((non<br>adj2 different\$7) or (un adj2<br>different\$7)) near8 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:16 |
| S5  | 6901    | different\$7 same ((non adj2<br>different\$7) or (un adj2<br>different\$7))  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 17:02 |
| S6  | 0       | S1 and S5  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:17 |
| S7  | 3441491 | different\$7   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:27 |
| S8  | 98      | S1 and S7  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:17 |
| S9  | 627088  | differential or differentiation or<br>differentiate  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:27 |
| S10 | 170     | (fix\$6 or calculat\$3 or estimat\$3 or<br>determin\$7 or reduc\$4) same error<br>near5 propagat\$3 same ((fe\$1d<br>adj2 back near2 (equali\$7 or<br>filter\$5)) or "dfe" or (decision adj2<br>fe\$1d adj2 back near2 (equali\$7 or<br>filter\$5))) | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:35 |
| S11 | 32      | S9 and S10   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 11:34 |

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| S12 | 53   | (approximat\$3 or estimat\$3) near4 ((non adj2 different\$7) or (un adj2 different\$7))   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:35 |
| S13 | 820  | tap same ((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))  | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:36 |
| S14 | 1    | S12 and S13   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:35 |
| S15 | 2625 | (tap near4 weight) saem (approximat\$3 or estimat\$3) near4 ((non adj2 different\$7) or (un adj2 different\$7))   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:36 |
| S16 | 4367 | ((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))   | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:25 |
| S17 | 229  | S15 and S16   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:36 |
| S18 | 2607 | (tap near4 weight) saem (approximat\$3 or estimat\$3) near4 ((non adj2 differential) or (un adj2 differential))   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:38 |
| S19 | 229  | S16 and S18   | US-PGPUB; USPAT | OR | ON | 2007/05/15 11:37 |
| S21 | 40   | constrain\$3 with ((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))                                   | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:28 |
| S23 | 0    | constrain\$3 same((fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5))) same (un or non) adj2 constrain\$3 | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:30 |
| S24 | 136  | constrain\$3 same( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))                                   | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:32 |
| S25 | 62   | (un or non) adj2 constrain\$3 same (filter\$5 or equali\$7)   | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:31 |
| S26 | 0    | S24 and S25   | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:31 |
| S27 | 62   | (un or non or "not") adj2 constrain\$3 same (filter\$5 or equali\$7)  | US-PGPUB; USPAT | OR | ON | 2007/05/15 12:31 |



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| S28 | 13   | constrain\$3 with tap same( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 13:54 |
| S29 | 0    | constrain\$3 with tap same ((channel near2 impulse) or "CIR") same ( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5))) | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:45 |
| S30 | 3    | constrain\$3 same ((channel near2 impulse) or "CIR") same ( (fe\$1d adj2 back near2 (equali\$7 or filter\$5)) or "dfe" or (decision adj2 fe\$1d adj2 back near2 (equali\$7 or filter\$5)))          | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:46 |
| S31 | 2577 | 375/229,230,232,233.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:46 |
| S32 | 1820 | 375/232,233.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 09:55 |
| S34 | 40   | (estimat\$3 or calculat\$3 or determin\$5) with (constrain\$3) near4 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:48 |
| S35 | 996  | differential near4 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:48 |
| S36 | 20   | S32 and S35   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 14:38 |
| S37 | 8    | S32 and S34   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:49 |
| S38 | 20   | S36 and differential  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:52 |
| S39 | 2    | ((channel adj2 impulse adj3 respon\$5) or "cir") same differential near5 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 12:53 |
| S40 | 5    | ((channel adj2 impulse adj3 respon\$5) or "cir") same differential near8 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/16 10:05 |
| S41 | 1    | (differential) near4 delay near4 tap same constrain\$4  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 14:36 |
| S42 | 1    | (differential) near8 delay near4 tap same constrain\$4  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:24 |
| S43 | 30   | constrain\$4 near4 tap near4 weight   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 14:38 |
| S44 | 7    | S32 and S43   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 14:38 |

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|-----|---------|---|--------------------|----|----|------------------|
| S45 | 97      | (differential) near8 delay near4 tap  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:24 |
| S46 | 6       | S32 and S45   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:24 |
| S47 | 70      | ((channel adj2 impulse adj3 respon\$5) or "cir") same constrained   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:25 |
| S48 | 11      | S32 and S47   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:28 |
| S49 | 1513974 | Constrained near5 weights same ((decision feedback (equaliz\$5 or filter\$5)) or "dfe") same channel impulse response   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:29 |
| S50 | 3       | Constrained near5 weights same ((decision feedback (equaliz\$5 or filter\$5)) or "dfe") same ((channel adj2 impulse adj2 response) or "cir")  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:30 |
| S51 | 1       | Constrained near5 weights same ((decision adj2 feedback adj2 (equaliz\$5 or filter\$5)) or "dfe") same ((channel adj2 impulse adj2 response) or "cir")  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:31 |
| S52 | 280     | (differentiable or differential or differentiation) near4 tap near4 weight near4 constrain\$3 ((decision adj2 feedback adj2 (equaliz\$5 or filter\$5)) or "dfe") same ((channel adj2 impulse adj2 response) or "cir") | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:32 |
| S53 | 1       | (differentiable or differential or differentiation) near4 tap near4 weight near4 constrain\$3   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:35 |
| S54 | 1       | (differentiable or differential or differentiation) with tap near4 weight near4 constrain\$3  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:42 |
| S55 | 1       | (differentiable or differential or differentiation) with tap near4 weight with constrain\$3   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:42 |
| S56 | 2       | (differentiable or differential or differentiation) same tap near4 constrain\$3   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:47 |
| S58 | 46      | ((channel adj2 impulse adj3 respon\$5) or "cir") same tap near4 weight  | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:48 |
| S59 | 20      | S32 and S58   | US-PGPUB;<br>USPAT | OR | ON | 2007/05/15 15:48 |